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Engineering & sciences applied to the earth & its environment

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September 9, 1992

Ms. Cheryl Walker Smith
Senior Remedial Project Manager
United States Environmental Protection Agency
345 Courtland Street Northeast
Atlanta, Georgia 30365

Re: Summary of OU-2 Sediment Analyses
RI/FS for McIntosh Plant Site
Olin Chemicals
McIntosh, Alabama
WCC File 90B449C
Document Control Number WCC-321

Dear Ms. Smith:

On behalf of Mr. Jim Brown of Olin Chemicals, Woodward-Clyde Consultants (WCC) is transmitting a summary of the OU-2 sediment analyses for the Phase I and Phase II sampling activities. We hope that this will aid in your review of the RI/FS deliverables.

If you have any questions regarding this submittal, please contact Mr. Jim Brown at 615-336-4308.

Very truly yours,

William A. Beal

Dennis E. Reece

WAB:kdl
Attachment

cc: Mr. J.C. Brown
Ms. Toni Odom

90B449C321.OLIN

Woodward-Clyde Consultants

SUMMARY OF OU-2 SEDIMENT ANALYSES

PHASE I

112 Sediment Grab Samples

All 112 samples were analyzed for mercury

101 samples were analyzed for the sediment screening parameters (hexachlorobenzene, pentachlorobenzene, and pentachloronitrobenzene)

21 samples analyzed for CLP TCL and TAL analyses

10 samples analyzed by both CLP and screening methods

3 sediment cores (5 samples per core) (C1, C2, C3)

All 15 samples were analyzed for mercury

10 samples were analyzed for sediment screening parameters

6 samples were analyzed for CLP TCL and TAL analyses

1 sample was analyzed by both CLP and screening methods

Figure 8 of the Preliminary Site Characterization Summary (PSCS) shows the sediment locations and identifies which samples were analyzed for the CLP analytes. The selected locations were based on Figure 5 in the Field Sampling Plan FSP of the May 25, 1992 amended work plan.

PHASE II

5 Core Locations

Core C2-2 (at same location as Phase I C2, but to a deeper depth)
- 7-8 ft sample (Hg semivolatile organics and volatile organics)
- 10-11 ft sample (Hg, semivolatile organics and volatile organics)
- 13-13.5 ft sample (Hg, semivolatile organics and volatile organics)

Core I7
- 3 samples in upper six inches (Hg, semivolatile organics)
- 3-4 ft sample (Hg, semivolatile organics and volatile organics)
- 6-7 ft sample (Hg, semivolatile organics and volatile organics)

Core E2

3 samples in upper six inches (Hg, semivolatile organics)
5-6 ft sample (Hg, semivolatile organics and volatile organics)
8-9 ft sample (Hg, semivolatile organics and volatile organics)

Core OD15

0-1 ft sample (semivolatile organics; already had mercury result from grab sample)
1-2 ft sample (Hg, volatile organics and semivolatile organics)
2-3 ft sample (Hg, volatile organics and semivolatile organics)

Core OD25

0-1 ft sample (Hg, and semivolatile organics; although already had mercury from grab sample location, analyzed again to confirm result)
2-3 ft sample (Hg, volatile organics and semivolatile organics)
4-5 ft sample (Hg, volatile organics and semivolatile organics)

See Section 2.2.3.2 of the PSCS for discussion of Phase II sampling

SAMPLE ID

The samples are identified as sediment grab (SG) or sediment core (SC) samples. The samples are further identified by area. For the basin, this area identification is a three digit grid location related to Figure 8 of the PSCS. For example, a sediment grab sample from G08 in the basin is identified as SGG08.

The ditch samples are identified by OD for outfall ditch (current wastewater ditch), DD for the current discharge ditch and BD for the basin ditch (former discharge ditch); these are followed by a sequential number related to the location shown on Figure 8 of the PSCS. For example, the fourth grab sample collected from the outfall ditch is identified as SGOD04.

The Phase I cores were identified as C1, C2, and C3 followed by the sequential number of the sample. For example the second sample collected from core C1 is SCC102.

During Phase II a second core was completed at location C2. Five samples were obtained during Phase I at this location; therefore, the first Phase II sample is identified as SCC206. The locations of the other 3 Phase II cores are identified by the grid location or the location in the ditch from which it was sampled. For example, the second sample from the Phase II core at OD25 is identified as SCOD252

Appendix F of the PSCS summarizes the analytical Data. (Only the results reported above the Contract Required Quantitation Limit (CRQL) are presented for the CLP data). The Phase II mercury results are not in Appendix F, but are presented in Table 13 and Table 14 and also in Appendix C. The data in Appendix F are sorted by location (i.e. basin , current discharge ditch, outfall ditch and former discharge ditch) and then in alphabetical order.

In Volume II of the PSCS, the data are presented by sample delivery group along with the data validation report for that sample delivery group.